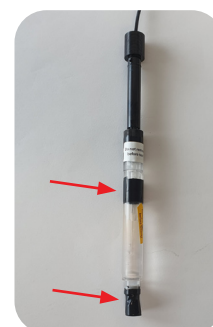


GETTING STARTED WITH pH ELECTRODES



1. UNPACKING

- Remove the grey shock-absorbing plastic net and inspect the microelectrode visually. Leave the microelectrode in the protection tube for testing.
- Remove the lower piece of tape and the stopper to remove the storage liquid (pure water).
- Remove the tape covering the hole on the side of the protection tube just below the nut.



NOTE! pH and reference micro-electrodes must be stored wet. Do not allow these electrodes to be exposed to air for more than 10 min.

Remove the tape covering the hole on the side of the protection tube and around the stopper.

2. CONNECT THE pH ELECTRODE TO THE AMPLIFIER

- Connect the reference electrode to the connector on the pH electrode cable
 - If using a micro reference electrode, remove the plastic net, the 2 pieces of tape and the stopper as described in 1-3 above. Storage liquid is 2 M KCl and it may be re-used.

3. CALIBRATE THE pH ELECTRODE

- Mount the calibration caps from the Calibration Kit on the protection tubes of the pH and reference electrode. Connect the two caps using the Y-piece and the tubing.
- If using a Robust Reference electrode, mount the calibration cap on the 10 cm plastic tube and place the reference electrode in that.
- Inject one of the pH buffers and allow the electrode to stabilize.
- Record the calibration point.
- Rinse the calibration caps and the syringe with pure water.
- Inject the second pH buffer and allow the electrode to stabilize.
- Record the second calibration point.
- For alternative calibration method, see the pH Microelectrode manual.



Injecting pH buffer into the protection tubes using the calibration caps from the calibration kit

IMPORTANT! For any calibration method and measurements, there must always be liquid continuity between the tips of the pH and reference electrodes.

NOTE! For pH micro-electrodes with built in reference electrode: Do not connect an external reference electrode, only connect a Calibration Cap to the protection tube. Other-wise perform the calibration as described above.

4. APPROVE THE SENSOR

- Compare the electrode response to Unisense Standard specifications (incl. in sensor box). If necessary, see Troubleshooting in the pH Microelectrode manual or contact support (see below)

5. STORAGE

- When not in use, store the microelectrode in the protection tube at 10 - 30°C. The stopper must be on the protection tube and the tip of the microelectrode must be immersed in water. pH microelectrodes with built in reference electrode must be store in a 2 M KCl solution.

USEFUL TOOLS



For support go to
www.unisense.com/support/ or
contact sales@unisense.com



Get the full manuals for all
sensors, equipment & software at
www.unisense.com/manuals/.



*pH Microelectrode
Manual*



*Calkit-pH
Manual*



*SensorTrace Suite
Manual*



*Find SDS for
Calibration Kit here*